

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/862,8558
Source:	OIPE
Date Processed by STIC:	4/2/103

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to:
  - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
  - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09 862,855
ATTN: NEW RULES CASE	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0 Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
1Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
2PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



OIPE

Does Not Comply
Corrected Management

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/862,855E

DATE: 04/21/2003 TIME: 15:11:06

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\04212003\I862855E.raw

```
3 <110> APPLICANT: Cai, Hong
          Keller, Richard
  5
          Werner, James
  6
          Goodwin, Peter
 8 <120> TITLE OF INVENTION: RAPID HAPLOTYPING BY SINGLE MOLECULE DETECTION
10 <130> FILE REFERENCE: S-94,652
12 <140> CURRENT APPLICATION NUMBER: US 09/862,855E
13 <141> CURRENT FILING DATE: 2003-04-10
15 <160> NUMBER OF SEQ ID NOS: 21
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 20
21 <212> TYPE: DNA
                               - Invalid response, see or or Summony sheet item 10
22 <213> ORGANISM: (M13mp18
24 <220> FEATURE:
25 <221> NAME/KEY: misc feature
28 <400> SEQUENCE: 1
29 gctcgaattc gtaatcatcg
                                                                              20
32 <210> SEQ ID NO: 2
                                         The type of errors shown exist throughout
                                         the Sequence Listing. Please check subsequent
33 <211> LENGTH: 18
                                         sequences for similar errors.
34 <212> TYPE: DNA
35 <213> ORGANISM: (M13mp18
37 <220> FEATURE:
38 <221> NAME/KEY: misc feature
41 <400> SEQUENCE: 2
42 cagtgccaag cttcgatg
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45 <210> SEQ ID NO: 3
46 <211> LENGTH: 97
47 <212> TYPE: DNA
48 <213> ORGANISM: (MLL
50 <220> FEATURE:
51 <221> NAME/KEY: misc_feature
54 <400> SEQUENCE: 3
55 gaagttccca aaaccactcc tagtgagccc aagaaaaagc agcctccacc accaaaacaa
                                                                              60
57 tatgatacat cttcaaaaac tcactcaaat tctcagc
                                                                              97
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 27
62 <212> TYPE: DNA
63 <213> ORGANISM: (MLL 3968L20
65 <220> FEATURE:
66 <221> NAME/KEY: misc_feature
69 <400> SEQUENCE: 4
70 aaaaatttct tgggcttcac tagggag
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## RAW SEQUENCE LISTING DATE: 04/21/2003 PATENT APPLICATION: US/09/862,855E TIME: 15:11:06

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\04212003\1862855E.raw

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74 <211> LENGTH: 29
75 <212> TYPE: DNA
76 <213> ORGANISM: (AF4 4025L24)
78 <220> FEATURE:
79 <221> NAME/KEY: misc feature
82 <400> SEQUENCE: 5
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86 <210> SEO ID NO: 6
87 <211> LENGTH: 12
88 <212> TYPE: DNA
89 <213> ORGANISM: (MLLCy5P
91 <220> FEATURE:
92 <221> NAME/KEY: misc feature
95 <400> SEQUENCE: 6
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99 <210> SEQ ID NO: 7
100 <211> LENGTH: 12
101 <212> TYPE: DNA
102 <213> ORGANISM: (AF4FAMP
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
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112 <210> SEQ ID NO: 8
113 <211> LENGTH: 12
114 <212> TYPE: DNA
115 <213> ORGANISM: MLLCy5L
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
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122 tttcttgggc tc
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125 <210> SEQ ID NO: 9
126 <211> LENGTH: 12
127 <212> TYPE: DNA
128 <213> ORGANISM: AF4RGXL
130 <220> FEATURE:
131 <221> NAME/KEY: misc_feature
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135 tttgagtgag tt
                                                                             12
138 <210> SEQ ID NO: 10
139 <211> LENGTH: 32
140 <212> TYPE: DNA
141 <213> ORGANISM: A*02011/A/TT/GT
143 <220> FEATURE:
144 <221> NAME/KEY: misc_feature
147 <400> SEQUENCE: 10
148 tggcagctca gaccaccaag cacaagtggg ag
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151 <210> SEQ ID NO: 11
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## RAW SEQUENCE LISTING PATENT APPLICATION: US/09/862,855E DATE: 04/21/2003 TIME: 15:11:06

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\04212003\1862855E.raw

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163	cgcagatacc tggaga	. 76
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	<212> TYPE: DNA	
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	<220> FEATURE:	
	<221> NAME/KEY: misc_feature	
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	<211> LENGTH: 76	
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/862,855E

DATE: 04/21/2003
TIME: 15:11:06

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\04212003\I862855E.raw

235	tggcagctca gaccacccaa ggcaagtggg ag <210> SEQ ID NO: 17 <211> LENGTH: 76	32
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	cgcagatacc tggaga	76
	<210> SEQ ID NO: 18	
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252	<212> TYPE: DNA	
253	<213> ORGANISM: A*24031/G/CA/GT /	
255	<220> FEATURE:	
256	<221> NAME/KEY: misc_feature	
259	<400> SEQUENCE: 18	
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263	<210> SEQ ID NO: 19	
264	<211> LENGTH: 76	
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	cgcagatacc tggaga	76
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	cgcagatacc tggaga	76
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VERIFICATION SUMMARY

DATE: 04/21/2003

PATENT APPLICATION: US/09/862,855E

TIME: 15:11:07

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\04212003\1862855E.raw